Evaluate the use of extruded feed diets on rainbow trout growth indicators

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Abstract

Meeting the growing need for fish production is only possible through scientific methods. Extruded feeding technology can be used in aquaculture industries. In this study, the effect of different levels of extruded (0, 75, 85 and 100 %) on the growth and nutrition of rainbow trout (*Oncorhynchus mykiss*) was investigated. The average weight of the fish was 90±5 g of the design was 90 days. The results showed that the average food intake in the first, second, third, fourth, fifth and sixth periods was different between groups. There was a significant difference ($P < 0.05$). Changes in weight and length of fish were significantly affected by extrusion ($P < 0.05$). The feed conversion ratio of fish at the end of the experiment was significantly different between treatments ($P < 0.05$). The best conversion rate in extrusion was 85% and the lowest growth rate and food absorption was in the zero group. The highest daily weight gain of 3.33 g was in the 85% group. The results of the study showed that the use of extruded had a positive effect on the nutrition and growth of rainbow trout.

Keywords: Rainbow trout, Extruded food, Food conversion ratio, Growth performance.